

## CLAIMS:

1. A method of forming a magnetic resonance image wherein  
- magnetic resonance signals are acquired,  
- the position of a measuring site is determined, and  
- the magnetic resonance image is reconstructed from the magnetic resonance signals and on  
5 the basis of the position of the measuring site.

2. A method of forming a magnetic resonance image as claimed in Claim 1  
wherein  
- a detail and an indication of the measuring site are reproduced, and  
10 - the position of the detail in the magnetic resonance image is corrected on the basis of the  
position of the indication of the measuring site in the magnetic resonance image.

3. A method of forming a magnetic resonance image as claimed in Claim 1  
wherein  
15 - a set of measuring magnetic resonance signals is acquired at a reference temperature,  
- a set of measuring magnetic resonance signals is acquired after the temperature has been  
changed, notably increased, at the area of the measuring site,  
- a reference magnetic resonance image is derived from the reference magnetic resonance  
signals,  
20 - a measuring magnetic resonance image is derived from the measuring magnetic resonance  
signals, and  
- the measuring magnetic resonance image and the reference magnetic resonance image are  
made to register on the basis of the position determined for the measuring site.

25 4. A method of forming a magnetic resonance image as claimed in Claim 3  
wherein  
- on the basis of the position determined for the measuring site the reference magnetic  
resonance signals and the measuring magnetic resonance signals are acquired from  
essentially the same region.

Sub  
97  
04.08.2000

5. A method of forming a magnetic resonance image as claimed in Claim 3 wherein

- a detail and an indication of the measuring site are reproduced in the reference magnetic resonance image,

- the same detail and the indication of the measuring site are reproduced in the measuring magnetic resonance image, and wherein

- a shift of the detail is derived from respective positions of the detail relative to the indication of the measuring site in the reference magnetic resonance image and the measuring magnetic resonance image,

- the position of the detail in the measuring magnetic resonance image is corrected on the basis of the derived shift of the detail.

6. A method of forming a magnetic resonance image wherein

- magnetic resonance signals are acquired,

- the position of a measuring site is measured, and

- the temperature at the measuring site is derived from the magnetic resonance signals.

7. A method of forming a magnetic resonance image as claimed in Claim 6 wherein

- a set of reference magnetic resonance signals is acquired at a reference temperature,

- the temperature at the area of the measuring site is changed relative to the reference temperature, the temperature notably being increased at the area of the measuring site,

- a set of measuring magnetic resonance signals is subsequently acquired, and

- a temperature distribution is derived from the reference magnetic resonance signals, the position of the measuring site and the measuring magnetic resonance signals.

8. A method of forming a magnetic resonance image as claimed in Claim 7 wherein

- a thermal image is derived from the measuring magnetic resonance signals, the reference magnetic resonance signals and the position of the measuring site, said thermal image reproducing the temperature distribution.

9. A method as claimed in Claim 1 or 6 wherein

Sub  
97  
04.08.2000

- a microcoil is used to acquire position magnetic resonance signals at the area of the microcoil, and
- the position of the measuring site is derived from the position magnetic resonance signals.

5 10. A magnetic resonance imaging system provided with

- a coil system for acquiring magnetic resonance signals and for determining the position of a measuring site, and
- a reconstruction unit for the reconstruction of a magnetic resonance image from the magnetic resonance imaging signals and the position determined for the measuring site.

10

11. A magnetic resonance imaging system as claimed in Claim 10 which includes

- a microcoil for the acquisition of position magnetic resonance signals at the area of the microcoil, and wherein
- the reconstruction unit is arranged to derive the magnetic resonance image from the magnetic resonance signals and on the basis of the position magnetic resonance signals.

15

12. A computer program containing instructions for

- the acquisition of magnetic resonance signals and
- the determination of the position of a measuring site, and
- the reconstruction of a magnetic resonance image from the magnetic resonance imaging signals and the position determined for the measuring site.

20

add 18 >